

INDUSTRIAL BOX PC

LM-PC343N

Specification & User Guide

Product Positioning

LM-PC343N is a compact fanless industrial box PC built for stable long-term operation in automation, embedded control, machine vision, smart terminal, and edge computing scenarios.

Its aluminum alloy chassis helps improve thermal dissipation while the sealed fanless structure reduces dust intake and maintenance requirements. The platform combines practical I/O, flexible storage, and dependable wired networking for industrial integration projects.

Product Image



Fanless Design	Dual Gigabit LAN	HDMI + VGA Output	Industrial I/O
Processor Intel N2840 / J1800 / J1900	Memory Up to 8 GB DDR3	Storage MSATA + 2.5-inch SATA 3.0	
Display HDMI + VGA	Network 2 x Gigabit RJ45	Power DC 12 V	

1. Product Overview

Overview

LM-PC343N is designed as a practical low-power industrial computer for stable 24/7 deployment in space-limited environments.

The system adopts a compact metal enclosure with fanless cooling, helping reduce operating noise and routine maintenance while improving reliability in dusty or vibration-prone installations.

With mainstream industrial interfaces, dual LAN, RS232 communication, and flexible storage expansion, it is suitable for integration into control systems, kiosks, visual terminals, edge gateways, and embedded applications.

Typical Application Scenarios

- Industrial automation and equipment control
- Machine vision and inspection stations
- Edge terminals and IoT gateways
- Smart self-service terminals and kiosks
- Medical equipment integration
- Digital display and industrial visualization

2. Key Features

<p>Fanless Structure</p> <p>Sealed fanless design helps reduce dust intake and supports quieter operation.</p>	<p>Efficient Thermal Design</p> <p>Aluminum alloy chassis improves heat dissipation for dependable daily use.</p>	<p>Flexible CPU Options</p> <p>Supports Intel N2840, J1800, and J1900 processor platforms.</p>
<p>Practical Connectivity</p> <p>Dual LAN, dual RS232, USB, HDMI, VGA, audio, and wireless expansion options.</p>	<p>Compact Form Factor</p> <p>Small footprint supports deployment in cabinets, machines, and embedded spaces.</p>	<p>Industrial Adaptability</p> <p>Suitable for automation, control, edge computing, and integration projects.</p>

3. Front Panel / Rear Panel



4. Interface Description

Category	Interface	Description
Display	HDMI	Digital video output for high-definition monitor or display connection.
Display	VGA	Analog display output for legacy industrial monitor integration.
Network	RJ45 LAN x 2	Dual Gigabit Ethernet ports for stable wired network access.
USB	USB 3.0 x 1	High-speed peripheral connection for storage or compatible devices.
USB	USB 2.0 x 3	General peripheral connection for keyboard, mouse, dongle, or control devices.
Serial	RS232 x 2	Serial communication for industrial controller, terminal, or equipment integration.
Audio	Mic-in / Line-out	Audio input/output for voice or multimedia support when required.
Storage	MSATA / 2.5-inch SATA	Flexible system and data storage expansion options.
Power	DC 12 V	External DC power input for device operation.

Category	Interface	Description
Wireless	Wi-Fi antenna x 2	Reserved antenna interfaces for wireless communication configuration.

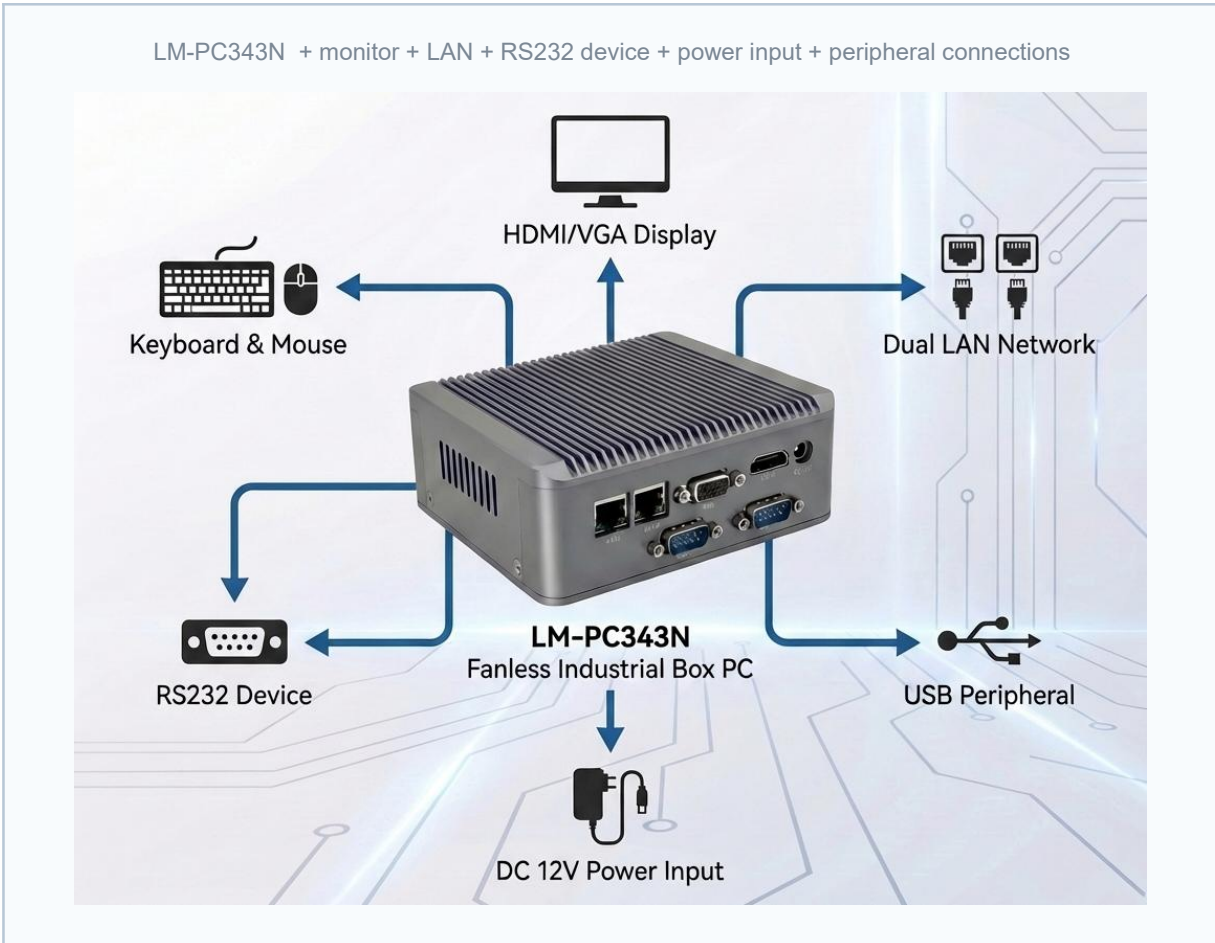
5. Technical Specifications

Item	Specification
Model	LM-PC343N
Processor	Supports Intel N2840 / J1800 / J1900 CPU
Mainboard	Integrated mainboard design
Memory	1 x DDR3 notebook memory slot; supports 1333 / 1600 MHz, 1.35 V low-voltage memory, up to 8 GB
Display Output	VGA + HDMI, up to 1920 x 1080 high-definition output
Network	Dual RJ45 Gigabit Ethernet ports
External I/O	2 x RS232 / 1 x USB3.0 / 3 x USB2.0 / 1 x HDMI / 1 x VGA / 1 x Mic-in / 1 x Line-out
Additional Interfaces	2 x RJ45 network / 2 x Wi-Fi antenna / 1 x DC 12 V
Storage	1 x MSATA; 1 x 2.5-inch SATA 3.0
Expansion Bus	1 x MINI-PCIE
Operating Temperature	-5 C to 60 C, 5%-90% RH, non-condensing
Storage Temperature	0 C to 70 C, 5%-90% RH, non-condensing
Power Input	DC 12 V power input
Dimensions	135 x 130 x 55 mm (L x W x H)

6. Operating System Support

Category	Supported System
Standard OS	Linux
Optional OS	Ubuntu
	Windows 7
	Windows 8
	Windows 10

7. Application Diagram



8. Packing List

Item	Qty	Remarks
LM-PC343N Industrial Box PC	1 pc	Standard unit
Power adapter	1 pc	DC 12 V
User guide	1 pc	This document or printed quick guide

9. Installation & Notes

Installation Notes	General Notes
<ul style="list-style-type: none"> • Confirm the correct DC 12 V power input before power-on. • Install the unit in a dry, ventilated environment. • Keep enough clearance around the chassis for heat dissipation. • Use proper industrial shielding and grounding where required. 	<ul style="list-style-type: none"> • Actual product appearance may vary slightly from reference images. • Final configuration is subject to the ordered CPU, memory, and storage option. • Please verify software compatibility based on your project environment.